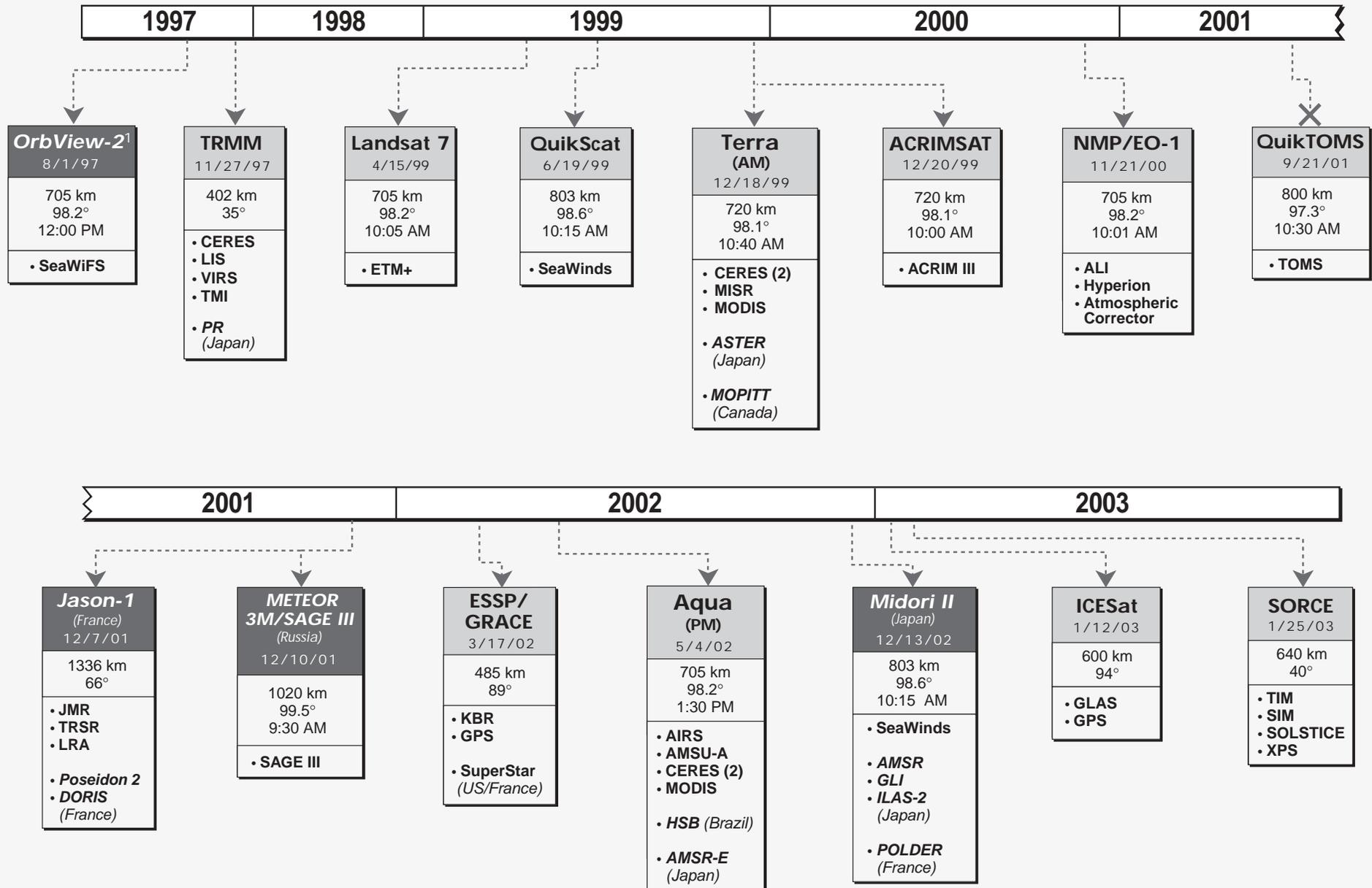


# Earth Science Mission Profile 1997 - 2003

27 January 2003



■ Spacecraft not provided by NASA  
*Items in italics not funded by NASA*

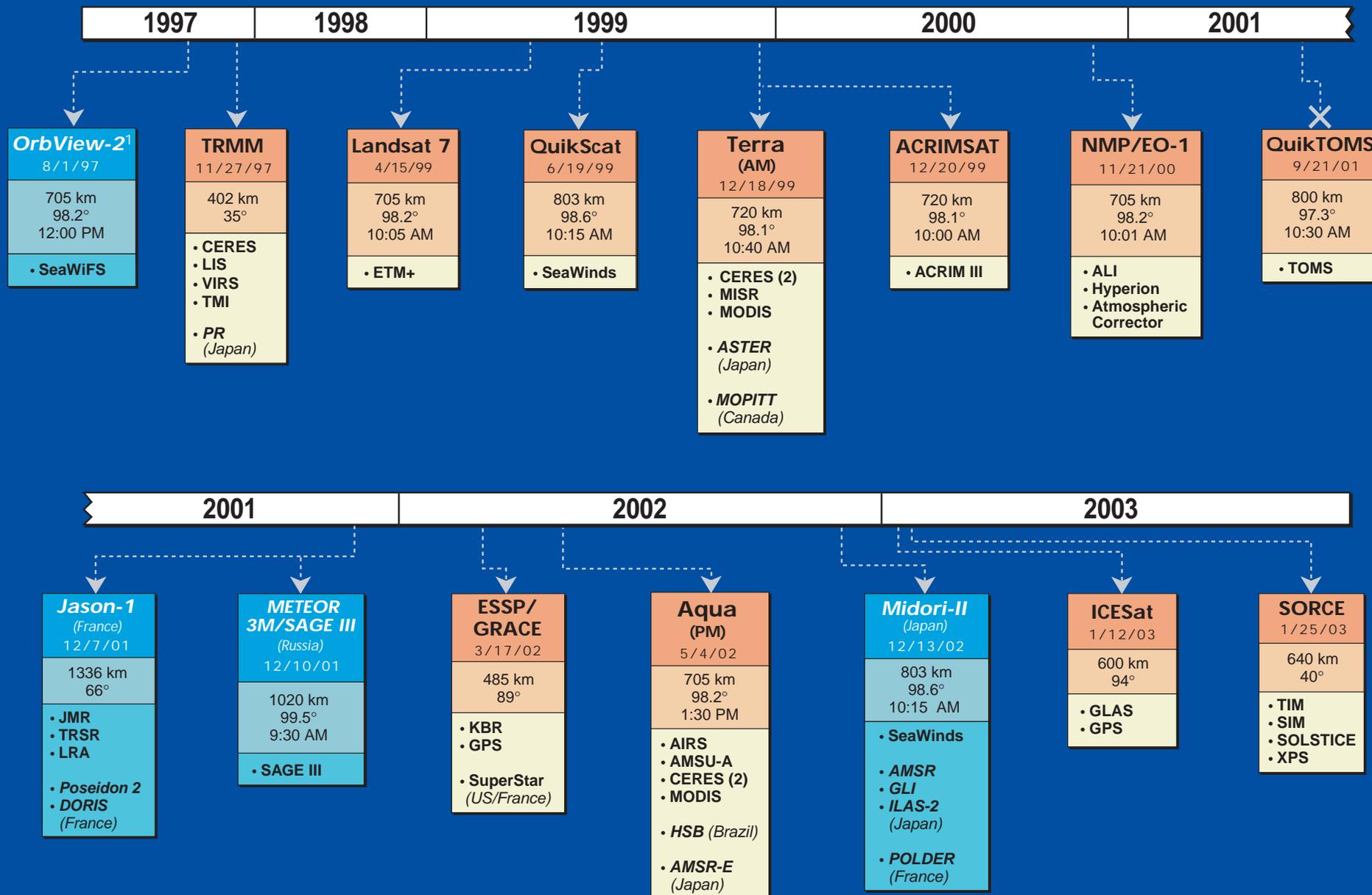
▼ Currently in orbit

✕ Launch Failure

<sup>1</sup> OrbView-2 is not provided or operated by NASA but is a data buy

# Earth Science Mission Profile 1997 - 2003

27 January 2003



■ Spacecraft not provided by NASA  
*Items in italics not funded by NASA*

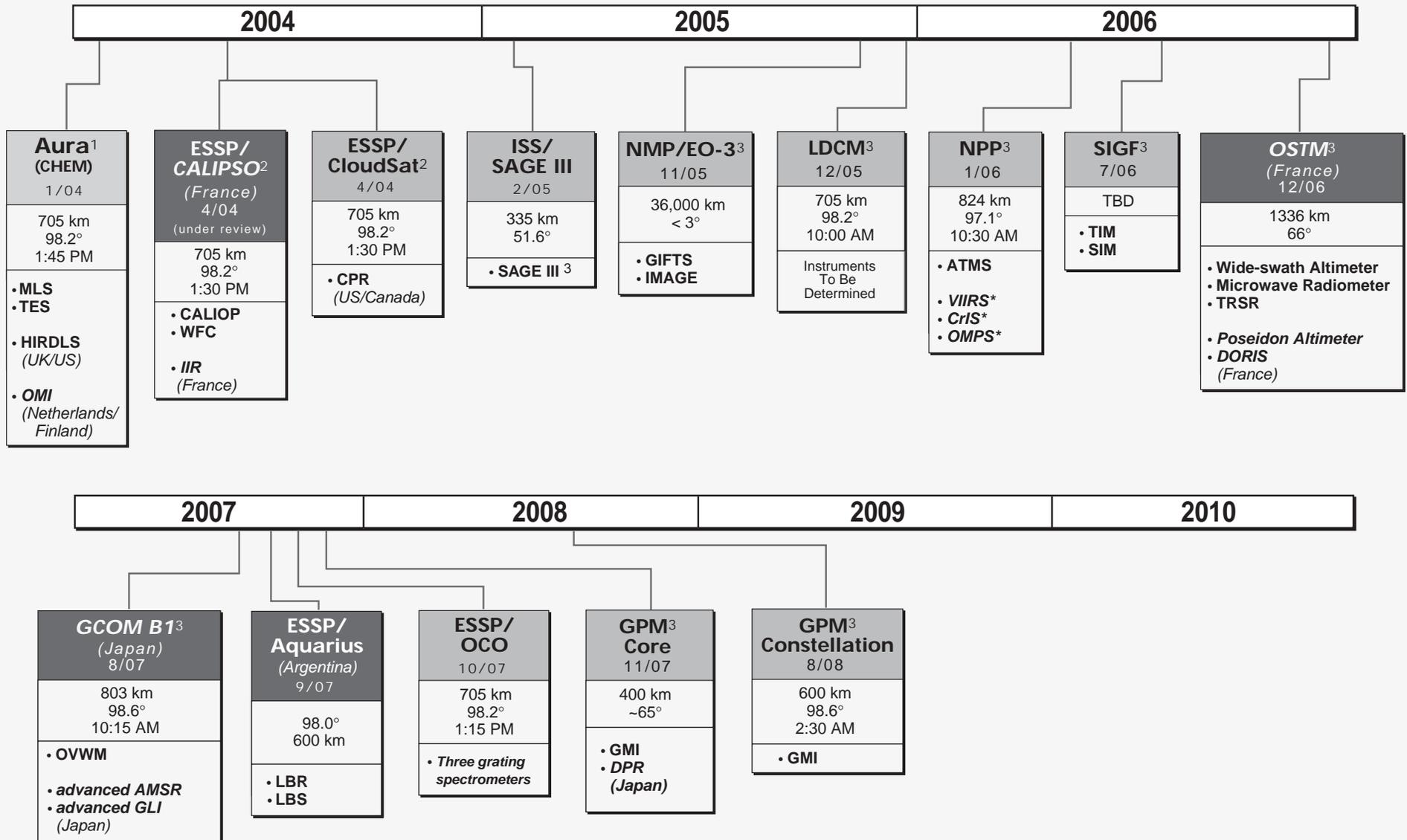
▼ Currently in orbit

✕ Launch Failure

<sup>1</sup> OrbView-2 is not provided or operated by NASA but is a data buy

# Earth Science Mission Profile 2004 - 2010

27 January 2003



■ Spacecraft not provided by NASA

Items in italics not funded by NASA

<sup>1</sup> Launch date currently under review

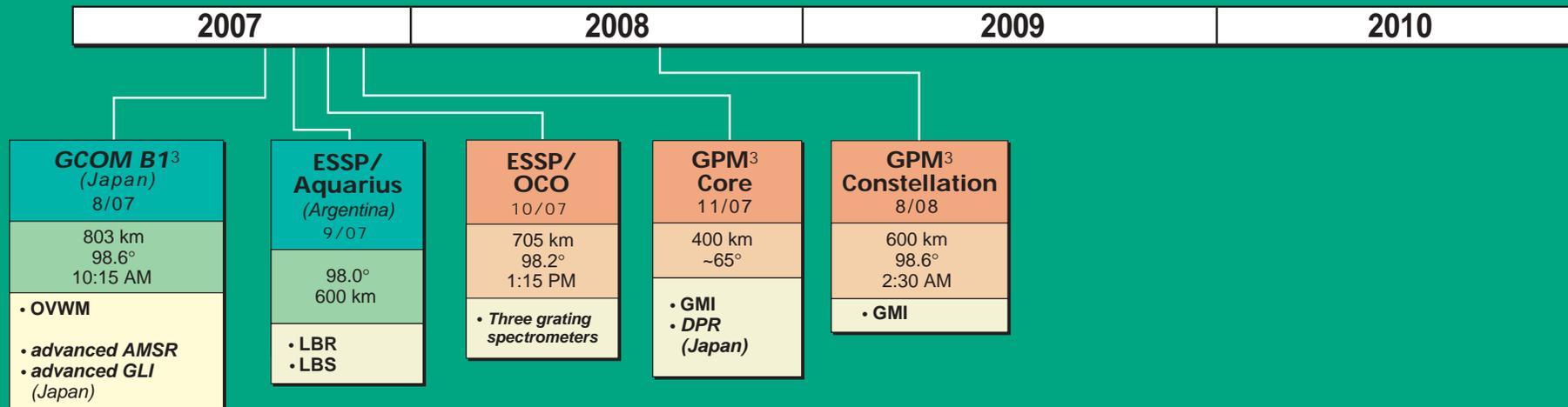
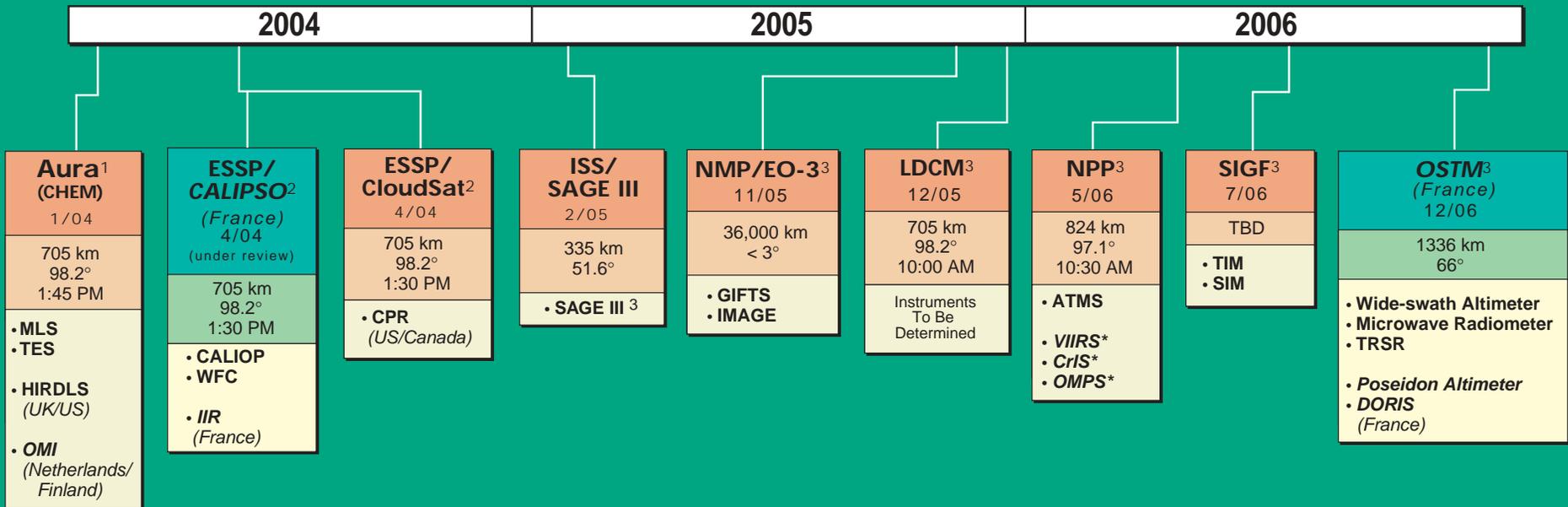
<sup>2</sup> These satellites will share the same launch vehicle

<sup>3</sup> These missions are currently under study or are in Formulation Phase. Information is preliminary and will be finalized by Mission Confirmation Review (MCR)

\* Instrument provided jointly with the Integrated Program Office (IPO)

# Earth Science Mission Profile 2004 - 2010

27 January 2003



Spacecraft not provided by NASA

Items in italics not funded by NASA

<sup>1</sup> Launch date currently under review

<sup>2</sup> These satellites will share the same launch vehicle

<sup>3</sup> These missions are currently under study or are in Formulation Phase. Information is preliminary and will be finalized by Mission Confirmation Review (MCR)

\* Instrument provided jointly with the Integrated Program Office (IPO)

# ***Mission Profile 1997 – 2003 Acronym List***

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## **ACRIMSAT**

- **ACRIM III** - Active Cavity Radiometer Irradiance Monitor

## **Aqua**

- **AIRS** - Atmospheric Infrared Sounder
- **AMSU-A** - Advanced Microwave Sounding Unit-A
- **CERES** - Clouds and the Earth's Radiant Energy System
- **MODIS** - Moderate-Resolution Imaging Spectroradiometer
- **HSB** - Humidity Sounder for Brazil
- **AMSR-E** - Advanced Microwave Scanning Radiometer

## **ESSP/GRACE**

Earth System Science Pathfinder/Gravity Recovery And Climate Experiment

- **KBR** - K-Band Ranging
- **GPS** - Global Positioning System

## **ICESat**

- **GLAS** - Geoscience Laser Altimeter System
- **GPS** - Global Positioning System

## **Jason-1**

- **JMR** - Jason Microwave Radiometer
- **TRSR** - TurboRogue Space Receiver
- **LRA** - Laser Retroreflector Array
- **DORIS** - Doppler Orbitography and Radiopositioning Integrated by Satellite

## **Landsat 7**

- **ETM+** - Enhanced Thematic Mapper Plus

## **METEOR 3M/SAGE**

- **SAGE** - Stratospheric Aerosol and Gas Experiment

## **Midori-II**

- **AMSR** - Advanced Microwave Scanning Radiometer
- **GLI** - Global Imager
- **ILAS-2** - Improved Limb Atmospheric Spectrometer 2
- **POLDER** - Polarization and Directionality of the Earth's Reflectance

## **NMP/EO-1**

New Millennium Program/Earth Observing-1

- **ALI** - Advanced Land Imager

## **OrbView-2**

- **SeaWiFS** - Sea-viewing Wide Field-of-view Sensor

## **QuikScat**

Quick Scatterometer

## **QuikTOMS**

- **TOMS** - Total Ozone Mapping Spectrometer

## **SORCE**

Solar Radiation and Climate Experiment

- **TIM** - Total Irradiance Monitor
- **SIM** - Spectral Irradiance Monitor
- **SOLSTICE** - Solar StellarIrradiance Comparison Experiment
- **XPS** - XUV Photometer System

## **Terra**

- **ASTER** - Advanced Spaceborne Thermal Emission and Reflection Radiometer
- **CERES** - Clouds and the Earth's Radiant Energy System
- **MISR** - Multi-angle Imaging Spectroradiometer
- **MODIS** - Moderate-Resolution Imaging Spectroradiometer
- **MOPITT** - Measurements of Pollution in the Troposphere

## **TRMM**

Tropical Rainfall Measuring Mission

- **CERES** - Clouds and the Earth's Radiant Energy System
- **LIS** - Lightning Imaging Sensor
- **VIRS** - Visible Infrared Scanner
- **TMI** - TRMM Microwave Imager
- **PR** - Precipitation Radar

# Mission Profile 2004 – 2010 Acronym List

## **Aura**

- **HIRDLS** - High Resolution Dynamics Limb Sounder
- **MLS** - Microwave Limb Sounder
- **OMI** - Ozone Monitoring Instrument
- **TES** - Tropospheric Emission Spectrometer

## **ESSP/Aquarius**

- **LBR** - L-Band Radiometer
- **LBS** - L-Band Scatterometer

## **ESSP/CALIPSO**

Cloud-Aerosol Lidar and Infrared Pathfinder Satellite Observations

- **CALIOP** - Cloud Aerosol Lidar with Orthogonal Polarization
- **IIR** - IR Imager
- **WFC** - Wide Field Camera

## **ESSP/Cloudsat**

- **CPR** - Cloud Profiling Radar

## **ESSP/OCO**

Orbiting Carbon Observatory

## **GCOM**

Global Change Observation Mission

- **AMSR** - Advanced Microwave Scanning Radiometer
- **GLI** - Global Imager
- **OVWM** - Ocean Vector Wind Mission

## **GPM/Constellation**

Global Precipitation Measurement

- **GMI** - GPM Microwave Imager

## **GPM/Core**

Global Precipitation Measurement

- **DPR** - Dual frequency Precipitation Radar
- **GMI** - GPM Microwave Imager

## **ISS/SAGE III**

International Space Station

- **SAGE III** - Stratospheric Gas and Aerosol Experiment

## **LDCM**

Landsat Data Continuity Mission

## **NMP/EO-3**

New Millennium Program/Earth Observing-3

- **GIFTS** - Geosynchronous Imaging Fourier Transform Spectrometer
- **IMAGE** - Ionospheric Mapper And Geo-coronal Experiment

## **NPP**

NPOESS Preparatory Project

- **ATMS** - Advanced Technology Microwave Sounder
- **CrIS** - Cross-Track Infrared Sounder
- **OMPS** - Ozone Mapping and Profiler Suite
- **VIIRS** - Visible/Infrared Imager/Radiometer Suite

## **OSTM**

Ocean Surface Topography Mission

- **DORIS** - Doppler Orbitography and Radiopositioning Integrated by Satellite
- **TRSR** - TurboRogue Space Receiver

## **SIGF**

Solar Irradiance Gap Filler

- **SIM** - Spectral Irradiance Monitor
- **TIM** - Total Irradiance Monitor